

ABSTRACT OF THE DISCLOSURE

A method for making a color filter includes the steps of: (1) providing a removable mold having an intaglio surface with a plurality of groove units formed therein, the groove units being arranged in predetermined pattern; (2) attaching the removable mold to a transparent substrate, thereby the intaglio surface and the transparent substrate cooperatively forming a plurality of channel units; (3) filling the channel units with a photopolymer solution containing colorants; (4) applying an ultraviolet light to the photopolymer solution through the transparent substrate so as to cure the polymer to the transparent substrate; and (5) removing the mold with the patterned polymer layer formed on the transparent substrate. The present method circumvents the conventional troublesome and time-consuming photolithographic process for forming a color filter that has to be unduly repeated three times.